AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.   (Currently Amended) A system for receiving data signals, said system comprising:

a dumb node comprising a radio receiver including a baseband processor for accepting a spread spectrum signal and for providing therefrom serial data signals composed of data frames each including a packet payload;

a decoder;

a physical link, having a first end at said receiver and a second end at said decoder, for conveying said serial data signals from said radio receiver to said decoder;

~~means~~an encapsulator at said first end for encapsulating said data frames within Ethernet ~~packets~~frames;

~~a transmission link for conveying said Ethernet packets; and~~

~~means~~a de-encapsulator at said second end for receiving ~~the~~said Ethernet ~~packets~~frames from said link and de-encapsulating said Ethernet ~~packets~~ frames to recover said data frames; and

957702

an intelligent node including said de-encapsulator, said decoder, a protocol processor for

developing addressed Ethernet data packets from said data frames, and a bridge for coupling said

Ethernet data packets to a network.

2.   Cancelled

3.   (Currently Amended) A system ~~according to~~as in claim 1 ~~and including~~ wherein

said encapsulator includes means for tagging said data frames before they are encapsulated

within said Ethernet ~~packets~~frames.

4.   (Currently Amended) A system ~~according to~~as in claim 1 wherein ~~the means for~~

~~encapsulating~~said encapsulator inserts at least one of said data frames followed by padding data

into ~~the~~a message section of ~~an~~one of said Ethernet frame~~s~~.

5.   Cancelled.

6.   (Currently Amended) A system for receiving data signals and coupling data

signals to an Ethernet network, said system comprising:

a dumb node comprising a radio receiver and an encapsulator, said radio receiver

including a baseband processor for providing serial data signals composed of data frames each

including a packet payload, and said encapsulator including means for encapsulating said data

frames within temporary Ethernet ~~packets~~frames;

an intelligent node comprising a de-encapsulator, and a protocol processor for providing

addressed Ethernet packets for ~~transmiision~~transmission in said network; and

- 6 -

957702

a physical link coupling said ~~dunb~~dumb node with said intelligent node;

wherein:

said encapsulator is coupled to said physical link to send said temporary Ethernet ~~packets~~frames to said de-encapuslator;

said de-encapsulator includes means for receiving said temporary Ethernet ~~packets~~frames from said link and de-encapsulating said temporary Ethernet ~~packets~~frames to recover said data frames; and

said protocol processor includes means for converting said data frames into said addressed Ethernet packets.

7.   (Currently Amended) A system ~~according to~~as in claim 6 wherein said encapsulator includes means for tagging said data frames before they are encapsulated within said temporary Ethernet ~~packets~~frames.

8.   (Currently Amended) A system ~~according to~~as in claim 6 wherein said encapsulator includes means for inserting at least one of said data frames followed by padding data into a message section of one of said temporary Ethernet ~~packets~~ frames.

9.   (New) A system as in claim 6 wherein said dumb node includes a multiplexer for multiplexing host controller interface data with pulse-code modulated voice data into said data frames.

957702

10.   (New) A method of receiving signals and transmitting signals over a local area network, comprising:

receiving a spread-spectrum signal containing message data and converting said spread-spectrum signal into serial data frames conforming to a host controller interface format;

encapsulating said serial data frames into Ethernet frames;

conveying said Ethernet frames over a physical link;

receiving said Ethernet frames from said physical link;

de-encapsulating said Ethernet data frames to provide recovered serial data frames;

developing by means of a protocol processor addressed Ethernet data packets from said recovered serial data frames; and

forwarding said addressed Ethernet data packets to said local area network.

957702